

FOLAND / Organic Chemistry. Synthetic Organic Chemistry.

G-2

Abs Jour

: RZhKhim, No 10, 1958, No 32446

Author

A. Chrzaszczewska, J. Kotler, W. Miecznikowska-Stolarczyk, G. Odor, S. Pizoni.

Inst

: Lodzkie towarz, naug.

Title

: Arylsulfonyl Derivatives of 2,4-Diaminotoluene.

Orig Pub

: Acta chim. Lodskie towarz. nauk., 1956, 2, 79-85

Abstract

The acylation reaction of 2,4-diaminotoluene (I) with m-O₂NC₆H₄SO₂Cl (II) was studied with a view to prepare monoacyl derivatives, which could be used as initial products for the synthesis of photostable dyes. It was established that at the condensation of I and II in the presence of substances bonding HCl (C₅H₅N, Na₂CO₃, CH₃COONa), 2,4-(m-O₂N-C₆H₄SO₂NH)₂C₆H₃CH₃ (melting point 155 to 156°) was produced nearly exclusively, without any regard to the ratio: I: II and the solvent. The conditions of the preparation of 2-

Card 1/4

APPROVED FOR RELEASE; 06/12/2000 rganiCIA-RDP86-00513R000509010020-

. Abs Jour : RZhKhim., No 10, 1958, No 32446

 $-(3!-0.2NC_6H_4SO_2NH)-4-H_2NC_6H_3CH_3$ (III) and $2-H_2N-4-(3!-0.2N-1)$ C6H4SO2NH)C6H3CH3 (IV) from I and II were found. In order to confirm the structure of IV, it was reduced to amino (V). which was prepared also by counter synthesis. The dyes prepared by combining IV with various dinitrated amines, or dinitrated V with AIII- or gamma-acid, are of low quality. The dimitration of V is carried out at a temperature above 0° in a great excess of acid (in order to avoid the immediaate combination with the V remaining in solution). 0.19 mole of II is added to 0.45 mole of I in 200 mlit of CH3OH at a temperature below 40°, the mixture is stirred 3 hours, water is added after cooling until the liquid becomes turbid, filtered (A solution), the precipitate is dissolved in 2-%-ual HCl, precipitated with NaHCO3, and IV is obtained, yield 80%, molting point 166 to 1670 (from water). III crystallizes from the A solution several days later, molting point 156

Card 2/4

POLAND /Organic Chemistry. Synthotic Organic Chemistry. G-2

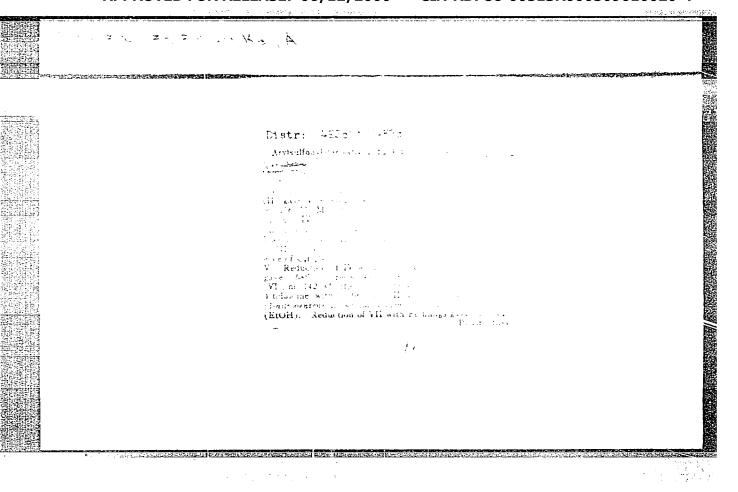
Abs Jour : RZhKhim., No 10, 1958, No 32446

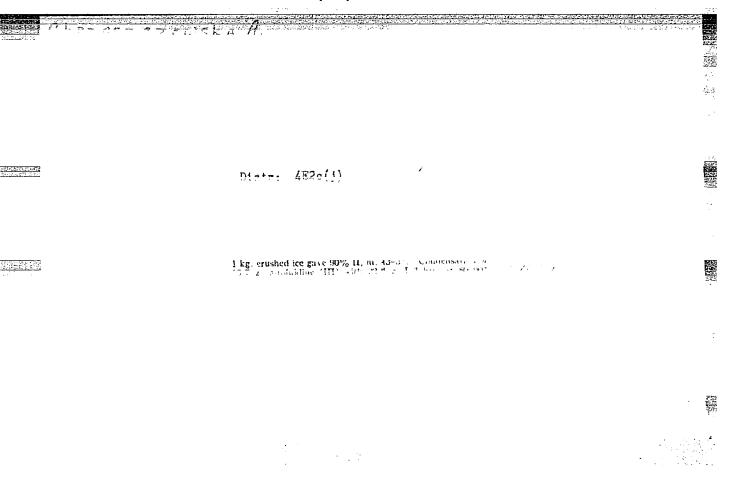
of II is added little by little at 50 to 60°, the mixture is seasoned 1 hour, and 2-Nog-4-(3°-Nog-6HaSO2NNI)ceH3CH3CH3(VI) is produced, yield 81%, melting point 124 to 125° (from alcohol). 0.03 mels of VI in 100 mlit of CH3CH is feduced (see the reduction of IV), V is produced, yield 72%.

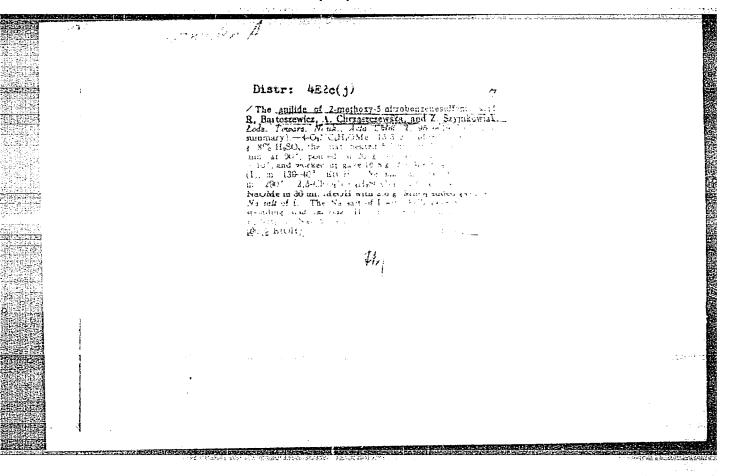
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	Preparation of the N.N-dichloroanude of 4 carboxy bearonesulfonic achi. A. Chrzanicewska a. d. M. Kor	
	Distr: 4E2c(j)/4E3d Preparation of the N.N-dichloroanude of 4 carboxy benconesulfonic acid. A. University and M. Ko- marki. Loda. Toward Nauk. Mad Emil 7 and reconsti- Kinglish summary 4 dis a distance of the carboxy	
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CHRZAS.	ZCZEWSKA,A.	
9et/1	Reters of carboxylic acids of 2-hydroxyethylamines and their derivatives. 1. Synthesis of N.N-bis(2-chloroethyl)-2-aminoethyl o-acetylaminobenzoate and triethanolamine tris(o-nitrobenzoate). A. Chrząsczewska, W. Kirkor, and R. Skowrodski (Univ. 2-Min. 2014a). 2-648. Towars. Nask. Wydstał III Acio Chim. 3, 41-7(1958)(in English).—N(CHaCHaCl)s (I) (0.1 mole) and 0.1 mole o-AcHNCaHaCOaK (II) was heated 3.5 hrs. at 96-100°, the product extd. twice with a total of 180 cc. boiling CaHa, the hot soln. filtered, cooled, and satd. with dry HCl gas. The pot., which sepd. together with a small annt. of a freezing oil, was filtered off and recrystd. (dissolved in 480 cc. hot CHCls, cooled, and repptd. with 800 cc. Btc0) to give 85% N.N-bis-(2-chloroethyl)-2-aminoethyl o-acetylaminobenzoate, m. 149-50°. The use of the Ag salt of II instead of the K salt in the above reaction proved inconvenient because of the instability of the Ag salt. A mint. of 0.11 mole freshly prepd. I and 0.11 mole p-ONCaHaCOaK heated 5.5 hrs. at 91-5°, the product extd. with 80 cc. boiling CaHa, and the hot soin. filtered and refrigerated gave 20% triethanolamine tris(p-nitrobenzoate), m. 128-9° (80 cc. hot CaHa). Joan P. Urbacka	19-9 (dp) 4E2-(g)

G-2 : Folund COUNTRY CATEGORY 74907 ABS. JOUR.: AZKhim., No. 21 1959, No. : Chrzuszczewska, A., Milewska, 3., and Pizon, S. AUTHOR : Kot given : X-Naphthylamide of j-aminobenzenesulfonic Acid TM 31. TITLE ORIG. PUB.: Soc Sci Lodz Acta Chim, 3 63-66 (1958) : Attemps to synthesize intermediates for the synthesis of sulfonsmide azo dyes have led to the ABSTRACT cynthesis of the X-naphthylamide of j-amino-benzenesulfonic acid (I). 0.05 mol of the Xnaphthylomide of 3-nitrobenzenesulfonic acid (II) in 150 ml 30% alcohol is heated to about 100°, 0.2 mol of 60% Na S is added in small portions, the solution is heated for 2 hrs at 950, the alcohol is distilled off, the solution is neutrelized with MCl, diluted with 200 ml water, CARD: 1/2

COUNTRY CATEGORY ABS. JOUR.	: Poland : : RZKhlm., No. 21 1959, No.	9-2 74907	
AUTHOR INST. TITLE			
ORIG. PUB.			
ABSTRACT	heated to boiling, filtered while hot (ch neutralized with Na ₂ CO ₃ , to give 71% I, m 204° (from aqueous alc). 0.05 mol II is (15 min) to 0.15 mol 60% Na ₂ S at 95°, and heating is continued for 2 hrs; I is obta yield 73%.	added the ined,	
	V. Skorodumo		
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CARD: 2/2			

COUNTRY : Poland 78583 ABS. JOUR.: REKhim., No. 22 1959, No. CATEGORY : Chrzaszczewska, A., Oprzadek, B., and Songin: Not given : The Reduction of >-Nitrobenzenesulfonanilide AUTHOR 1931. TITLE ORIG. PUB.: Soc Sci Lodz Acta Chim. 3, 73-78 (1958) ABSTRACT . The authors have studied the reduction of 5nitrobenzenanilide (I) with Fe or Zn in the presence of HCl (acid or UH, COOH at various component mole ratios and reaction times. I, mp 120-122° (from alc), is prepared from j-102 C6 H4-SO₂Cl and C₆ H₅ NH₂. A 0.05 mol sample of I in 100 ml 50% CH₃OH was used in all the reductions. 0.31 g-atom of Fe, 44 ml 25% HCl, and solvent were heated 5 min to boiling, the I was added

were heated 5 min to politing, the solution over 45-50 min at constant boiling, the solution

1/4 * Pawluk, N. CARD:

COUNTRY : Poland CATEGORY 78583 ABS. JOUR. : RZKhim., Ro. 22 1959, No. AUTHOR IMST. TITLE ORIG. PUB. : : Fe and CH, COOH. Optimum conditions for the latter ABSTRACT case are: 1 hr [addition time?], Fe : 1 mol ratio = 4.7 : 1, CH, COOH : Fe = (0.22-0.45) : 1: the yield of II is 76-78%. A suspension of I in 50% CH, OH is treated with HCl (acid) and Zn dust is added to the solution heated to boiling, heating is continued for 15 min, the solution is filtered while hot, about 50 ml CH, OH are distilled off from the filtrate, and the residue is treated with 20 ml cold water and neutralized with 10% CARD: 3/4

COUNTRY : Poland G-2 CATEGORY : ABS. JCUR. : RZKhim., No. 22 1959, No. 78583 AUTHOR : INST. :	
AUTHOR:	
ORIG. PUB. :	
ABSTRACT: Na ₂ CO ₃ . Under optimum conditions (30 min, Zn: 1 = (3.4-5.3): 1, HCl excess of 25% or higher), the yield of II is 92-93%. A mixture of I, CH ₃ COOH, and solvent is treated for 1 hr with boiling with Zn dust, and the procedure is contin-	
ued as described above. Under optimum conditions (2 hrs, Zn excess 53-77%, acid excess of not less than 50%), the yield of II is 84-86%.	
N. Turitsyna	
CARD: 4/4	
127	

CHRIASZCZEWSKA COUNTRY Poland G-2 CATEGORY ABS. JOUR.: AZKhim., No. 20 1959, No. 71439 Chrzaszczewska A; Bielawski B; Skowronski R; AUTHOR" TMST. Not given. TITLE Chemistry of N-Halogen Amides. VIII N-Dipromozmide of p-Azobenzenesulfonic Acid and N-Bromo-p-azobenzenesulfonamide Salts of Mono-and Bivalent Metals ORIG. PUB. : Soc. scient. Lodz. acta chim., 1958, 3, 79-85 ABSTRACT Salts of N-bromo-p-azobenzene sulfamide (I bromoamide) were obtained from p-azobenzosulfamide (II) or from N-dibromo-II (III). 0.75 moles of azobenzene were added to 6.75 moles C1SO₃H at 25-30° during 30 minutes. After 4 hours at 100°C the mixture was cooled and poured onto ice. In such a manner p-azobenzene sulfochloride was obtained 190% yield, m.p. 124-125° (from CCl4), which when warmed for 5 hours at 40-60°C with 25% of aq. solution of NH₂ yielded II, m.p. 224-225°. Into a solution of 0.025 moles CARD: 1/5 Slowinski J: Ungier M.

COUNTRY : Poland G-2

CATEGORY :

ABS. JCUR. : RZKhim., No. 20 1959, No. 71439

AUTHOR : INST. : TITLE :

ORIG. PUB. :

ABSETRACT : II in 0.05 mole of A solution of NaOH (25°C) were added 0.055 moles Br2 over 45 minutes. After keeping the mixture for 3 hours at about 30°C III was obtained, 83% yield, m.p. 130-131 (from CCl.). Into 0.0125 mole III in 20 ml H20 were added over 25 minutes 25 ml of N NaOH. After stirring for 3 hours at 30°C the precipitate was separated and recrystallized from water at 50°C. This procedure yielded 2.4 g of the Na salt of I (IV). IV may be also obtained (12.3 g yield) by the addition of a solution CARD: 2/5

COUNTRY CATEGORY	: Poland	0-2
ABS. JOUR.	: RZKhim., No. 20 1959, No.	71 ¹ +39
AUTHOR INST. TITLE		
ORIG. PUB.	- 보이지 등록 구성 생활을 즐겁게 하는 것도 하는 것 같습니다. 그 그 그 그 사람 - 보이는 말이 들어들을 모르고 있는 것 같습니다. 그 사람들이 되는 것이다. 그 사람들은 - 보이를 보는 것 같습니다. 보이를 하는 것 같습니다.	
TORTEGA	cof 0.05 mole NaOH in 25 ml water pension of 0.025 mole III and 0 in 50 ml H20 and by keeping the ture for 3 hours at 30°. Similar of I was prepared. Into a sus 0.025 mole II in 46 ml of a 0.0 tion of IdoH were added over 30°0.026 moles of Bro. After 4 he and recrystallization of the rwater at 35°C di-hydro Li-salt isolated (67% yield). V may be from a mixture of II and III and	0.025 mole II e above mix- larly K salt pension of 05 molar solu- 0 minutes (300), ours at 300 esidue from of I (V) was e also obtained
CARD: 3/5		

COUNTRY : Poland G-2
CATEGORY :

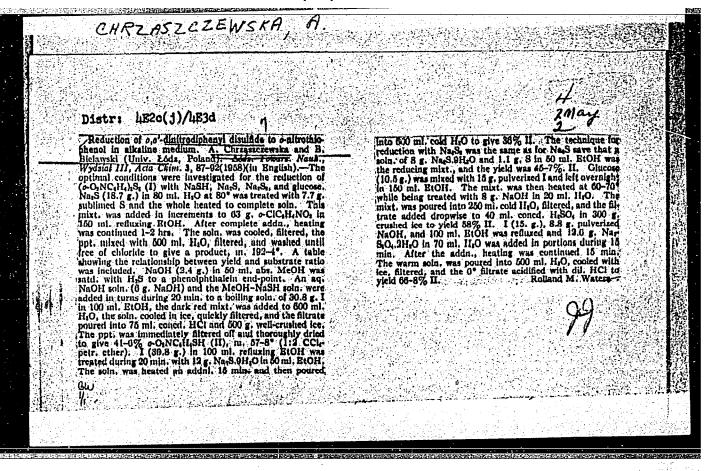
ABS. JOUR. : RZKhim., No. 20 1959, No. 71439

AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : Of MgCl₂ into the solution of IV in water (50°) Mg-salt of I was formed. Report VII, see RZKhim, 1957, #11, 37602.

-- A. Berlin



CHRZASZCZWESKA, A.; BRAUN, A.; NOWACZYK, M.

N.N'-di-p-tolyidiacridine nitrate. p. 93.

ACTA CHIMICA. (Lodskie Towarsystwo Naukowe. Wydzial III: Nauk Matematycsno-Prsyrodniczych) Lodz, Poland. Vol. 3, 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 7, July 1959
Uncl.

P/012/59/004/03/08/020

AUTHORS:

Chrzaszczewska, A.; Kirkor, W.; Dawid, W.

TITLE:

Esters of Carboxylic Acids of 2-Hydroxyethylamines and its Derivatives. II. Synthesis of N-Bis-(2'-Hydroxyethyl)-2-Amino-ethyl p-Nitrobenzoate and its Hydrochloride and of Hydrochloride of N-Bis-(2'-Chloroethyl)-2-Aminoethyl p-Nitrobenzoate

PERIODICAL: Societas Scientiatum Lodziensis Acta Chimica, 1959, Vol 4, pp 77 - 84

TEXT: The authors describe a further step in their investigations on esters of carboxylic acids of 2-hydroxyethylamines and its derivatives. They succeeded in synthesizing a) N-bis-(2'-hydroxyethyl)-2-amincethyl p-nitrobenzoate and its hydrochloride, and b) hydrochloride of N-bis-(2'-chloroethyl)-2-amincethyl p-nitrobenzoate. These syntheses were not described yet in chemical scientific literature. The results of quantitative analysis of all compounds obtained are in agreement with theoretical assumptions. There are 2 tables and 2 references: 1 Polish and 1 English.

1

Card 1/2

P/012/59/004/03/08/020

Esters of Carboxylic Acids of 2-Hydroxyethylamines and its Derivatives. II. Synthesis of N-Bis-(2'-Hydroxyethyl)-2-Aminoethyl p-Nitrobenzoate and its Hydrochloride of N-Bis-(2'-Chloroethyl)-2-Aminoethyl p-Nitrobenzoate

ASSOCIATIONS: Katedra Chemii Organicznej Uniwersytetu Łódzkiego (Lodz University, Department of Organic Chemistry); Katedra Chemii
Wyższej Szkoły Ekonomicznej (High School of Economics, Department of Chemistry) in Lodz

PRESENTED: March 14, 1959

Card 2/2

P/012/59/004/03/09/020

AUTHORS:

Chrzaszczewska, A.; Szalecki, W.; Kirkor, W.; Dawid, W.

TITLE:

Esters of Carboxylic Acids of 2-Hydroxyethyl-Amines and its Derivatives. III. Synthesis of Hydrochloride of Triethanolemine Tri-o-Chlorobenzoate

PERIODICAL: Societas Scientiarum Lodziensis Acta Chimica, 1959, Vol 4, pp 85 - 87

While investigating the action of acid chlorides on triethanol-TEXT: 1 amine, a new compound, the hydrochloride of triethanolamine of tri-o-chlorobenzoate was obtained. It was not described yet in chemical scientifical literature. It cristallizes in the form of colourless plates with 97-98°C melting temperature. It dissolves easily in acetone, methanol and ethanol, sparingly in benzene and in water and is not soluble in ether. Quantitative analysis and molecular weight are in agreement with theoretical figures.

ASSOCIATION: Katedra Chemii Organicznej Uniwersytetu Łódzkiego (Lodz University, Department of Organic Chemistry).

PRESENTED: March 14, 1959

Card 1/1

P/012/59/004/03/10/020

AUTHORS: Russocki, M.; Chrząszczewska, A.; Slawiński, T.; Hahn, W.E.

TITLE: Synthesis of 1, 6, 8, 21, 41, 61-Hexahydroxyphenylfluorone

PERIODICAL: Societas Scientiarum Lodziensis Acta Chimica, 1959, Vol 4,

pp 90 - 93

TEXT: The scope of the investigation described in this article was the synthesis of a hitherto not known symmetrical hexahydroxyphenylfluorone in which all orto positions, as regards the central carbon, are filled with hydroxy groups. This goal was achieved by condensation of phloroglucine aldehyde with phloroglucine in a classical way. The condensation was carried out by heating these compounds in 50%-alcohol, acidulated with H_2SO_4 in the atmosphere of air or carbon dioxide. The output was between 48-66%. The same product, but with lower output and purity, was obtained by condensation in concentrated sulphuric acid. There are 4 referencess 2 German and 2 English.

ASSOCIATION: Katedra Chemii Organicznej Uniwersytetu Łódzkiego (Lodz Uni-

versity, Department of Organic Chemistry)

PRESENTED: March 14, 1959

Card 1/1

P/012/59/004/03/11/020

AUTHORS:

Bartoszewicz, R.;

Chrzeszczewska, A.; Drabikowska, A.;

Drabikowski, W.

N-Beta, Gamma-Dihydroxypropylarylsulphonarylides. IV

TITLE:

PERIODICAL:

Societas Scientiarum Lodziensis Acta Chimica, 1959, Vol 4,

pp 95 - 99

TEXT: In continuation of studies on N-beta, gamma-dihydroxypropylarylides of aromatic sulphonic acids (Refs. 1, 2, 3) two new compounds of this type were obtained. They are: N-beta, gamma-dihydroxypropyl-3-nitroanilide melting at 147-148°C, and N-beta, gamma-dihydroxypropyl-4-nitroanilide melting at 147-148°C, and N-beta, gamma-dihydroxypro troanilide of 3-nitrobenzenesulphonic acid, melting at 127-125.50C. The authors describe their experiments leading eventually to the compounds mentioned above. They have found that the presence of Nitro group, bound to the sulphonic acid and amine core, makes the introduction of the dihydroxy-propyl group rather difficult. Further, it was established that, when obtaining a compound in which the nitrate group in the amine ring is in position 4, and with the application of chlorhydrine in quantities exceeding 50%, the product became greatly contaminated, most likely because of some

Card 1/2

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P/012/59/004/03/11/020

N-Beta- Gamma-Dinydroxypropylarylsulphonarylides. IV

secondary reactions. There are 8 references: 4 Polish and 4 English.

ASSOCIATION: Zakład Chemii Organicznej Uniwersytetu Łódzkiego (Lodz University, Department of Organic Chemistry)

PRESENTED: March 14, 1959

Card 2/2

23277 P/012/60/006/000/001/001 5.5220 A221/A126 AUTHOR: Chrzaszczewska, A.; Kirkor, W.; Bajan, J., and Novaczyk, M. TITLE: Dinitrates of N,N'-dipropyldiacridine and N,N'-diallyldiacridine and intermediate products PERIODICAL: Societatis Scientiarum Lodziensis Acta Chimica, v. 6, 1960, 49 - 54 Looking for new compounds of lucigenine type with chemilumines-TEXT: cent properties, which could be used as indicators in volumetric analyses. the authors synthesized dinitrate of dipropyldiacridine and dinitrate of diallyldiacridine according to the following scheme: (NO₃) Card 1/6

A221/A126

23277 P/012/60/006/000/001/001

Dinitrates of N,N'-dipropyldiacridine and ...

 $R = CH_3 - CH_2 - CH_2 -$, or $CH_2 - CH - CH_2 -$ The synthesis of acridone (I) and its potassium salt (II) were prepared exactly as described by A. Chrzaszczowska (Ref. 1: A. Chrzaszczowska, A. Braun, M. Nowaczyk - Soc. Sci. Lodz Acta Chim. 3, 93, 1950). This potaggium galt was treated with propyl iodate and as a result the N-propylacridone (III) was obtained in the form of yellow crystals, melting at 129 - 130°C. The compound III was then reduced by means of zinc dust in alcoholic solution of HCl and the N,N'dipropyldiacridine (IV) was obtained and recrystallized from the cyclohexanone; it did not melt when heated to 300°C. This compound, in turn, was brought to boil with 2n HNO3 - and the dinitrate of N, N'-dipropyldiacridine was obtained crystallizing in the form of yellow scale. It is easily soluble in water, and when treated with hydrogen peroxide it showed blueish-green chemiluminescence. In the course of the second product synthesis, the acridone potassium salt was treated with allybromide and N--ullylacridone was obtained. This compound is easily soluble in alcohol, benzene and acetone and shows strong blue fluorescence; recrystallized from diluted alcohol it melts at 136 - 137°C. This product, reduced in the same way as described above, yields the N,N'-diallyldiacridine, melting at 253 -

Card 2/6

23277

P/012/60/006/000/001/001 A221/A126

Dinitrates of N.N'-dipropyldiacridine and ...

254°C(with decomposition). Brought to boil with 3n HNO3, the dinitrate of N, N'-dipropyldiacridine in the form of yellow needles was obtained. This compound is easily soluble in water and, treated with alcaline hydrogen peroxide, shows blueish-green chemiluminescence. Neither of these compounds (I, II, III, IV, and V) were described yet in chemical literature. Larger quantities of these lucigenine compounds necessary for further investigations were obtained by A. Braun and A. Witkowski. Identity of products and their purity was confirmed through elemental analysis and physico-chemical investigations made by J. Kroh (Ref. 7: Soc. Sci. Lodz, Acta Chim. 5, 1960). Experimental part: N-propylacridone - In a three-necked 200 ml flask, fitted with reflux-cooler, thermometer and mechanical stirrer, 20 g of acridone petassium salt and 40 g (0.23M) of n-propyl iodate were placed. The reaction was carried out for five hours at 125°C under vigorous stirring. After completion KJ sediment was filtered out and from the filtrate the N-propylacridine was precipitated by means of water. After recrystallization from water-alcohol 2:1 solution, the product was obtained in the form of long needles, melting at 129 - 130°C. Results of two elemental analyses for C, H and N were in fairly close agreement with theoretical figures, calculated

Card 3/6

23277 P/012/60/006/000/001/001 A221/A126

Dinitrates of N,N'dipropyldiacridine and ...

for the compound C16H15NO. N,N'-dipropyldiacridine - In a 200 ml round flask 4.3 g (0.017 M) N-propylacridone, 17.2 g zinc dust and 129 ml 2n HCl dissolved in alcohol were placed and the flask was heated for one hour on a water bath. Green sediment which had formed was filtered out and recrystallized from cyclohexanone. The yield was 1.4 g of product, which did not melt when heated to 300°C. Results of two elemental analyses of this product for C, H and N, were in fairly close agreement with theoretical figures calculated for the compound C32H30N2. Dinitrate of N,N'-dipropyldiacridine - In a 50 ml beaker the mixture of 1 g of N,N'-dipropyldiacridine was brought to boil with 20 ml of 2n HNO $_{\rm X}$ and was filtered. From the filtrate 0.34 g of the dinitrate of N,N'-dipropyldiacridine was obtained in the form of yellow scales. This compound is soluble in water and, treated with caustic scda and hydrogenperoxide, shows blueish-green chemiluminescence. Results of two elemental analyses of this product for C, H and N were in fairly close agreement with theoretical figures, calculated for the compound $c_{32}H_{30}$ NAO6. N-allylacridone - In a three-necked, 200 ml flask, fitted with reflux cooler, thermometer and stirrer, a mixture of 25 g (0.1 m) of acridone potassium salt and 80 g (0.66 m) of allyl bromide were warmed up on a water

Card 4/6

23277

Dinitrates of N,N'-dipropyldiacridine and ...

P/012/60/006/000/001/001 A221/A126

The reaction took two hours at 90°C under vigorous stirring. During this process KBr settled on the flask wall and was subsequently filtered out. From the filtrate the N-allylacridone was precipitated by means of water and was recrystallized from water-alcohol 2:1 solution. The product was yellow and melted at 136 - 137°C. The result of two elemental analyses of this product for C, H and N were in fair agreement with theoretical figures calculated for the compound C16H13ON. The double link was confirmed by a conventional method. N,N'-dially1diacridine - In a 200 ml flask fitted with reflux cooler the mixture of 4.7 g of N-allylacridone, 18.8 g of zinc dust and 141 ml of HCl dissolved in alcohol was heated on a water bath for 1 hour at 60°C. The pale-green sediment which resulted was filtered out and was treated in a beaker with 50 ml of hot cyclohexanone. The N,N'-diallylacridine was dissolved and filtered from zinc dust. From the filtrate it crystallized into fine crystals melting at 25! - 252°C (with decomposition). Results of two elemental analyses of this product for C, H and N, were in a fair agreement with theoretical figures calculated for the compound C32H26N2. Dinitrate of N,N'-diallyldiacridine - In a 50 ml beaker the mixture of 1.5 g of N,N'-diallyldiacridine and 30 ml of 3n HNO3 was brought to boil. From the cold solution the dinitrate of N,N'-diallyldiacridine crystallized into



Card 5/6

23277

Dinitrates of N,N'-dipropyldiacridine and ...

P/012/60/006/000/001/001 A221/A126

small yellow needles. The yield was 0.7 g. Again the results of two elemental analyses of this product for C, H, N and O were in a fair agreement with theoretical figures, calculated for the compound $^{\rm C}_{\rm 32}{}^{\rm H}_{\rm 26}{}^{\rm N}_{\rm 4}{}^{\rm O}_{\rm 6}$. There are 7 Soviet-bloc references.

ASSOCIATION: Zakład Chemii Organicznej Uniwersytetu Łódzkiego (Łódź University, Organic Chemistry Department) in Łódź

PRESENTED: December 12, 1959

Card 6/6

S/081/62/000/022/028/088 B144/B101

AUTHORS:

Chrzaszczewska, Anna, Machlanski, Tadeusz, Władyga, Ryszard

TITLE:

Study of diacylglycerol phosphoric acids and characteristic

salts of their derivatives

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 22, 1962, 228, abstract 22Zh245 (Zess. nauk Univ. Łódsk., ser. 2, no. 10, 1961,

191-194 [Pol.; summary in Eng.])

TEXT: In searching for substances suitable for identifying diacylglycerol phosphoric acids (I glycerol phosphoric acid) their monoguanidine salts were obtained. A hot solution of 8.5 mmoles 1,2-distearyl-I (Ia) in 100 ml acetone was added to 8.5 mmoles guanidine carbonate (II base) in 50 ml alcohol; after heating for 6 hrs at ~100°C and hot filtering it is cooled and Ia·II is filtered; yield 53%, melting point 33-34°C [from acetone-alcohol (1:1)]. At 85°C a mixture of 78 mmoles water with 20 ml ether is gradually added to a mixture of 35 mmoles $C_{15}^{H}_{31}^{COOCH}_{2}^{CH}(OCOC_{15}^{C}_{31}^{C})^{CH}_{2}^{OH}$ and 35 mmoles $C_{20}^{C}_{31}^{C}$. The melt is dissolved

Card 1/2

S/081/62/000/022/028/088
Study of diacylglycerol phosphoric ... B144/B101

in 180 ml C₆H₆, 5 drops of water and 3 ml of absolute alcohol are added, the decantate is added gradually to a solution of 35 mmoles of II-carbonate in 10 ml of 50% alcohol, cooled to 5°C, 100 ml of acetone are added, and the salt of 1,2-dipalmityl-I and II is filtered off; yield 42%, melting point 72-73°C (from CH₃OH). In a similar way the salt of 1,3-dipalmityl-I and II was obtained; yield 47.3%, melting point 76-77°C.

[Abstracter's note: Complete translation.]

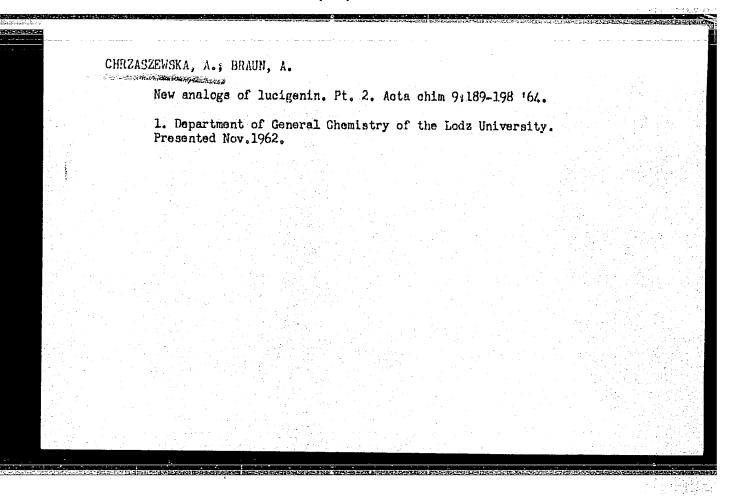
Diacylglycerinphosphoric asids and their derivatives in the form of salts. Nauki matem przyrod Lodz no.10:191-194 '61.
1. Department of Organic Chemistry, University, Lodz.
도 경기를 받는 것이 되었다. 그는 사람들이 되었다면 보다는 것이 되었다면 보다는 것이 되었다면 보다는 것이 되었다. 그는 사람들이 되었다면 보다는 것이 되었다면 보다면 보다는 것이 되었다면 보다면 보다는 것이 되었다면 보다면 보다는 것이 되었다면 보다는 것이 되었다면 보다면 보다면 보다면 보다면 보다면 보다면 보다면 보다면 보다면 보
요. 물통 등에 발표되었다며, 여행한 마음을 하면 여행하다며 보고 하다 하다. 그 바로 함께 함께 보고 있는데 함께 함께 보고 있다. 요. 아이라는 아이들을 가면 있는데 하는데 하는데 하는데 하는데 보고 하는데 보고 있는데 하는데 되었다.
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하는 것이 되는 것이 없는 것이 없는 것이 되었다. 그런 그는 것이 되는 것이 되었다. 그런

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•	A method of obnitrobenzoate	and the sy	bis-(2 hydronthesis of a	oxyethyl)-2- some of its	aminoeti deri va ti	nyl - p - Lves. Acta	
	chim 8:21-27	162.				•	
	1. Department	of Organic	Chemistry,	University,	Lods.	Presented	by
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	internation of the section of the se				<u> </u>		

CHRZASZCZEWSKA, A.; HAHN, W.E.; KACZAN, J.

Research on the diacylglycerophosphoric acids. Pt.3. Acta chim 8:29-35 162.

1. Department of Organic Chemistry, University, Lods. Presented by A. Chrzaszczewska.



CHRZASZCZEWSKA, A.; DAWID, W.

Esters of carboxylic acids of 2-hydroxyethylamines and their derivatives. Pt.10. Acta chim 9:199-212 164.

1. Department of Organic Chemistry of the Lodz University. Presented Nov. 1962.

CHRZASZCZEWSKA, A.; KACZAN, J.

From research on diacylglycerophosphoric acids. Pt.4. Acta chim 9:213-225 '64.

Research on glycylglycolphosphoric acid. Pt.1. Ibid.:227.236

1. Department of Organic Chemistry of the Lodz University. Presented Nov.1962.

OLCZAKOWSKI, Władysław, prof. mgr inz.; CHRZASZCZ, Jerzy; MOTYKA, Ignacy, mgr inz.; SMYK, Marian; STRANC, Zofia, mgr

Desalting brown coal by the ion exchange method. Glow inst gorn prace no.339:1-28 '64.

1. Central Mining Institute, Katowice.

Η

CHALDS ELLEWSKI J.

POLAND/Chemical Technology. Chemical Products and Their Applications. Industrial Organic Synthesis.

Abs Jour: Ref Zhur-Khimiya, No 6, 1959, 20397

Author : Chrzaszczewski, J., Kasinski, M., Wronski, M.

Inst
Title: A New Method for Obtaining Sulfophthalein
Indicators.

Orig Pub : Przem. chem., 1956, 12, No 11, 647

Abstract: The existing methods for the obtaining of sulfophthalein indicators (SI) are based proncipally on the condensation of the anhydrite of 0-sulfobenzoic acid (I) with the corresponding phenol (P), are noted for duration, and give a yield of 20-30 percent,

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POLAND/Chemical Technology. Chemical Products and Their Applications. Industrial Organic Synthesis.

Abs Jour: Ref Zhur-Khimiya, No 6, 1959, 20397

on the basis of the NH4 salt of I. A method of direct condensation of the NH4 salt of I with the corresponding P in the presence of P205 is proposed. Dry pulverized NH4 of P205 is proposed. Dry pulverized NH4 salt of I is mixed with P205 in a gram-molecular ratio of 1:1 and the mixture is heated; then, for 1 hour, while being containuously blended, P and P205 are added in a gram-molecular ratio of I:1.5. Duration of condensation at 130-1400 was less than four hours. Unreacted P was distilled with an aqueous vapor. By this method, thymolsulfonephthalein was obtained with an field

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I well

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H-64

POMAND/General Problems

E-1

Abs Jour : Ref Zhur - Khimiya, No 3, 1958, No 7526

Author: Khshonshehewsky, Sml', Valendzyak

: Synthesis of Ethylenediamine-tetrancetic Acid and Determin-Inst

ation of Water Hardness by Means of Complexone III.

Orig Pub : Zecz. nauk. uniw. tod-k., 1956, ser. 2, No 2, 77-86

Abstract: A modification of the method for the synthesis of EDTA (I) by Schwarzenbach giving a good yield has been worked out as well as a method for the determination of water hardness by means of complexone III (II). (Schwarzenbach G., Helv. chim. acta., 1951, 34, 1503). 106 g. of monochloracetic acid is dissolved in 200 ml. of water, neutralized with NaOH (III) in the presence of phenolphthalein (IV) and is diluted with water to 375 ml. The resulting solution is heated to 90°C. and to this is added, (after being neutralized in the presence of (IV)) 31 g. of the hydrochloride of C2H4(NH2)2 in 142 ml. of water and then is added dropwise with vigorous agi-

: 1/3 Card

> - muon (vii) in 1 liter/ 5 drops of eriochrome black (0.5 g. in 100 ml of 96% alcohol) and titrated from a microburette with a 0.01N solution of II (containing 0.1 g of MgCl₂ 6H₂O in 1 liter). The titer of the

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by dissolving 0.1183 g. of CaCo₃ g. in V and diluting the
water up to 2 liters (1 ml. contains 0.033 mg. of CaO). For

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POLAND/General Problems

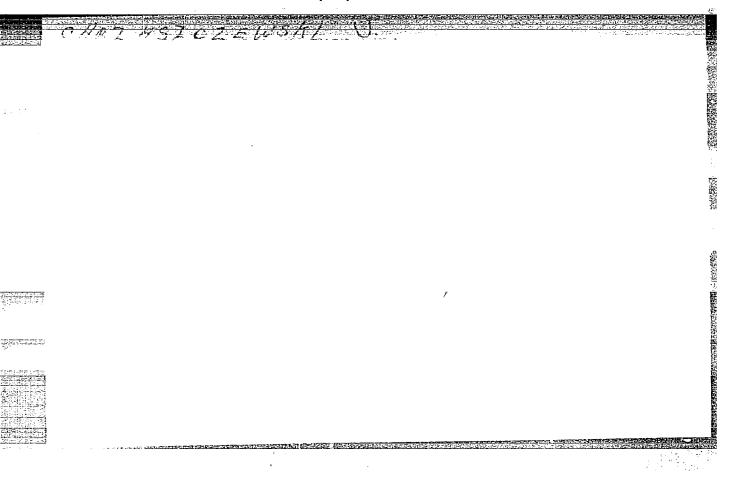
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Abs Jour : Ref Zhur - Khimiya, No 3, 1958, No 7526

the Mg determination an oxalate buffer solution is used (35 g. of VI and 1.3 g. of (NH4) 2C2O4.H2O and 3.5 ml. of VII in 250 ml.).

Card : 3/3

4



FOLAND / Physical Chemistry. Thermodynamics. Thermo- B chemistry. Equilibria. Physico-Chemical Analysis, Phase Transitions.

Abs Jour: Ref Zhur-Khimiya, No 17, 1958, 56736.

Author : Chrzaszczewski Jozef, Wronski Mieczyslaw, Leszczynska Alicja.

Inst : Not given.

Title : The Solubility of Carbon Bisulfide in Electro-

lyte Aqueous Solutions.

Orig Pub: Zesz. nauk. uniw. lodzk., 1957, Ser. 2, No 3,

133 - 137.

Abstract: The solubility of CS2 in aqueous solutions of

NaCl and Na₂SO₄ at 15 and 25°C have been investigated, and the CS₂ hydrolysis rate constants in NaOM solutions have been determined.

11

Card 1/2

APPROVED IF OR IR 51 EASE: 096/12/2000 The CLATRES 5:0051-38000509010020-4"

chemistry. Equilibria. Physico-Chemical Analysis, Phase Transitions.

Abs Jour: Ref Zhur-Khimiya, No 17, 1958, 56736.

Abstract: Data on the solubility of CS2 (S) versus temperature (e) and ionic power of electrolyte sol-

ature (0) and ionic power of electrolyte solutions (μ), expressed by the equation $\lg 1/s = 1.619 \neq 5.87. 10^{-7} \cdot 9^2 \neq 0.163 \,\mu$, may prove useful in the development of the fiber vis-

cosity technology.

В.

CHRZASCZEWSKI, JOSEF.

POLAND/Physical Chemistry - Surface Phenomena, Adsorption,

Chromatography, Ion Exchange.

Abs Jour :

: Ref Zhur - Khimiya, No 14, 1958, 46139

Author

: Josef Chrzasczewski, Mieczyslaw Wronaki, Jerzy Michalski

Inst

: Lodz University.

Title

: Carbon Bisulfide Adsorption on Activated Carbon of "Norit" Type in Presence of Water Vapor and Air

Orig Pub

Zesz. nauk. Univ. lodzk., 1957, Ser. 2, No 3, 139-143

Abstract

The adsorption (A) of CS₂ on activated carbon (AC) of the "Norti" type in presence of water vapor and air was investigated by the volumetric method (RZhKhim, 1957, 57221; 1958, 32280), and it was found that the moisture content in AC decreased its adsorption properties. This effect is expressed especially clearly in the

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APPROVED FOR RELEASE: - 687 129 2000 mena CIA-RDP 86-00513R000509010020-4" Chromatography, Ion Exchange.

Abs Jour

: Ref Zhur - Khimiya, No 14, 1958, 46139

adsorption of the air itself and considerably less in the A of CS₂. The presence of air does not influence the A degree of CS₂, because the apparent change in the adsorption properties of carbon are caused by the desorption of air.

CHKZASZCZEWSKI

POLAND / Analytic Chemistry. General Topics.

E

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60558.

: Jozef Chrzaszczewski, Marian Kosinski. Author

Inst : Lodz University.

: Sulfophthalein Indicators. Method of Preparation. Title

Orig Pub: Zesz. nauk. Univ. lodzk., 1957, Ser. 2, No 3,

145-157.

Abstract: o-Cresolsulfophthalein (I) and thymolsulfophthalein (II) are prepared by the condensation of the ammonium salf of sulfobenzoic acid SO3NH4C6H4 COOH (1 mole) with corresponding phenols (2 moles) at 140 to 1600 in the duration of 1 hour. The condensation product is distilled with steam or dissolved in a solution of NaHCO₃, precipitated with HCl and recrystallized from glacial CH₂COOH or absolute alcohol. The yield is 75 to 80% of

Card 1/2

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POLAND / Analytic Chemistry, General Topics.

7

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60558.

Abstract: the theoretical. Cresol o-Purple and Bromothymol

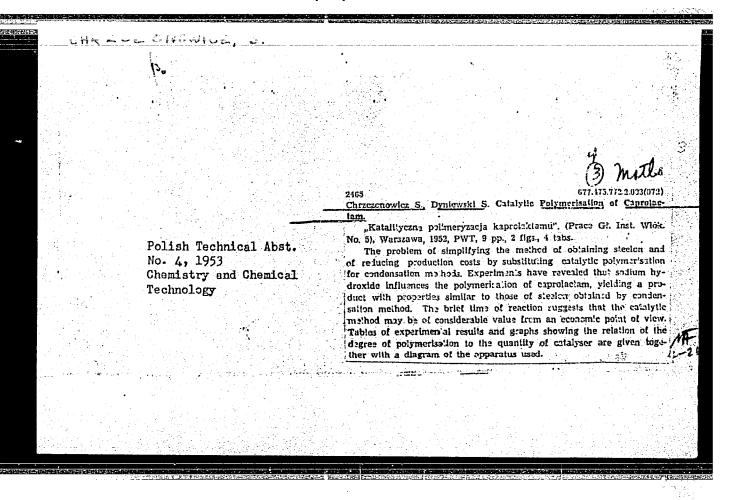
Blue are prepared by bromination of I and II.

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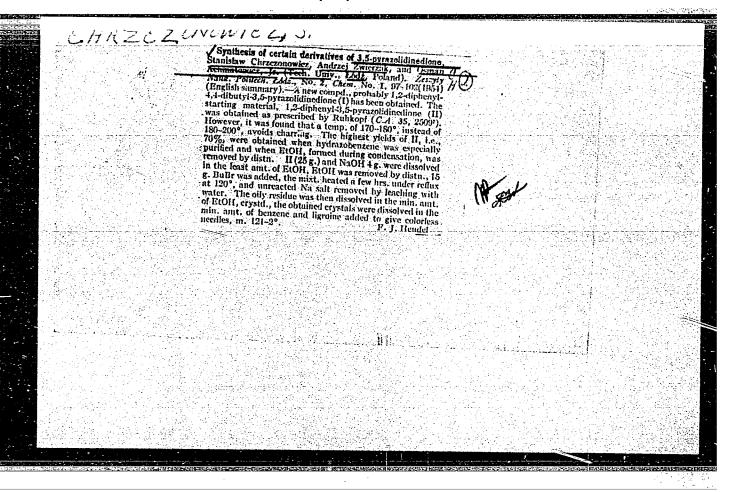
POLAND / Laboratory Equipment, Apparatus; Their Theory, Construction and Application. : Rof Zhur - Khimi, No 10, 1958, No 32280 ibs Jour : Jozof Chrzaszowski, Nicozyslaw Wronski. uthor Inst : Simple Determination Method of Isotherm of Vapor Adsorption Title on Bolid Substances. : Rocan, chom., 1957, 31, No 1, 297-299 Orig Pub : A simple apparatus for measuring isotherms of vapor Abstract adsorption is described. The apparatus consists of a gas burette connected with a Hg manometor, vacuum installation and two vessels with faucots for the adsorbent and adsorbed substance. Computation equations are presented. Card 1/1

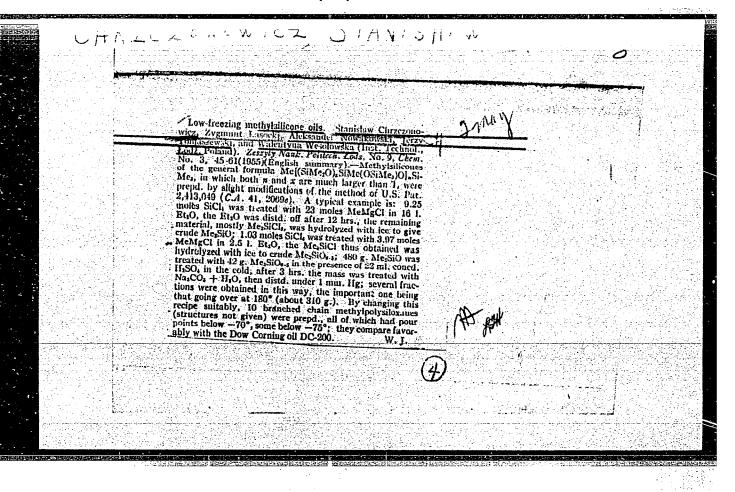
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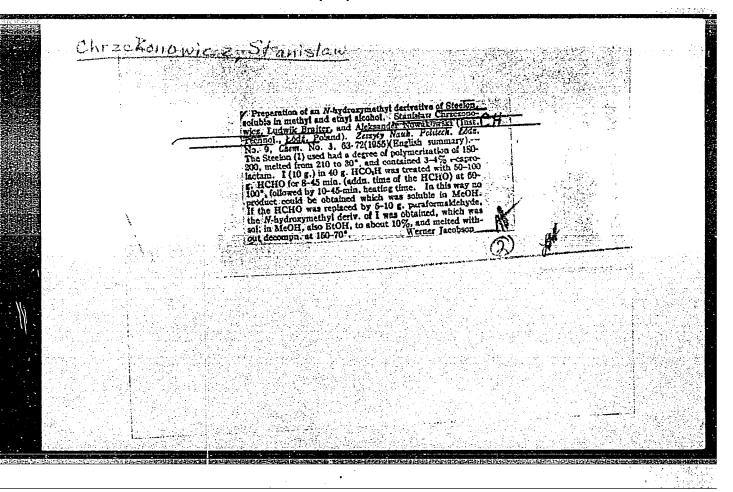
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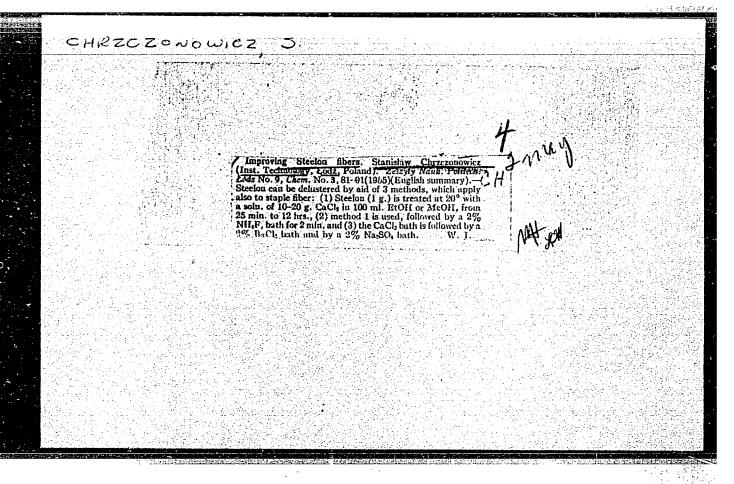
wicz and Jerry Montey Articity Nauk. Pelitech.	on of enarroleitant in present the catalyst. Stanklaw Chreen Edit (Teil) Univ. Ital. Tole Lide. No. 2, Caim. No. 1, 7 y).—The authors studied to be the present of O. 150.	7-10 JATU	
merized ecaptolatism (introduced into a flask as of cleaned CO. After) of anhyd. AcONa 0.08- long neck of the flask.	od heated to 263? (b.p.) in the more than 10 min, of boiling a 1-0.05 g, was introduced thron After 12-30 min, the liquid her	ithi nup gb a	
creased considerably, creased in order to kee became less and less th explained by a partial tion began after 20–320	o the liquid at its b.p. The lock and its color darkened, who depolymenization. Depolyment of I became polymerized. Depolyment of I became polymerized.	iquid ich la criza- poly- itytic	
decoups, reaction between a statement of the statement of	ween long and short mols., an of O). Conclusion: Polyoreth a sutuble for a full-sea e produ fymerication with AcONa 23-3; eact at all. 34 references. F. L. Hei	ntion iction 1% of	

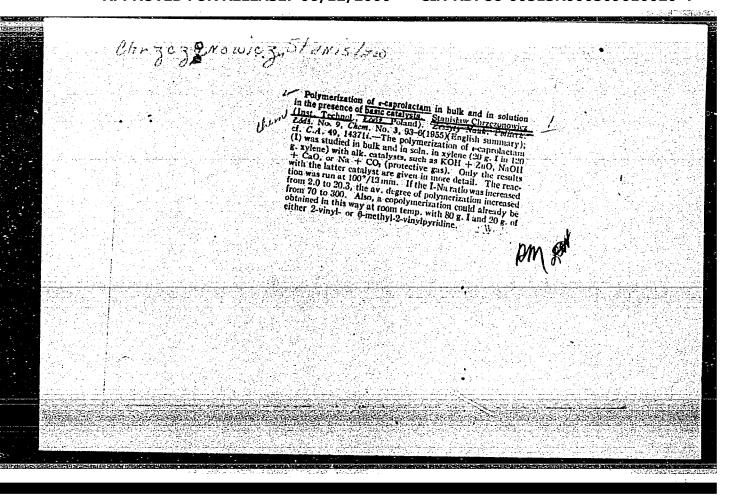






Method of imparting to Steelen Shere a delustered appearance and a coarse surface. Aleksander Nowakowski Assaulsiaw Chrzezonowicz, and Ludwig Brajter (Inst. Fech. 1982) Petron 1, 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	6 g pray
abstr.—Steelon is dissolved over 3 miu. in 30% HCO11 at 20°; 4% of the N-hydroxymethyl deriv. of Steelon is added together with 1% NaHCO in 87% BtOH at 75°. After 1-2 min. at the high temp., the material is quenched to 20° and treated with 5% HCl. The CO ₁ development cracks the surface of the fiber, to give the desired loss of luster. Wertler Jacobson	2 188 gd





Ι

CHREZONOWICZ, STANISLAU

POLAND / Chemistry of High Molecular Substances.

Abs Jour : Ref. Zhur. Khimiya, No 3, 1958, 10199

: Chrzczonowica Stanislau Author

: Not given Inst

: Solution Polymerization of -caprolactam in Presence of Na Title

and CO2 and Bulk Polymerization of the Same in Presence of

Basic Prometers.

Orig Pub : Zesz. nauk. Politechn. lodzkiej, 1957, No 15, 65-92

Abstract: The process of C-caprolactam polymerization (P) in xylol in presence of Na and CO2 was investigated. The relationship between the degree of polymerization of the produced polyamide and the amount of Na for a given amount of CO2 was determined. Among the products of the reaction in an anhydrous medium, a mixture of the Na salt of polycaprolactam,

Card 1/2

Ι

POLAND / Chemistry of High Molecular Substances.

Abs Jour : Ref. Zhur- Khimiya, No 3, 1958, 10199

Abstract: NaHCO3 and Na2CO3 were isolated. A hypothetical mechanism for the reaction is proposed. Bulk P of caprolactam was investigated in the laboratory. A suspension of the sodium salt of polycaprolactam, NaHCO3, and Na2CO3 in xylol; a mixture of NaOH and CaO; and a mixture NaOH and ZnO were used as promoters. The dependence of the degree of polymerization and of the reaction yield upon the amount of promoters and the time of the reaction was determined. The process of caprolactam bulk P in presence of the abovementioned promoters and NaOH was investigated on a pilotplant, and the parameters of the process determined. Fibers were spun out of the obtained polyamide resins and their mechanical properties investigated.

Card 2/2

POLAND/Chemistry of High-Molecular Substances.

I

Abs Jour

: Ref Zhur - Khimiya, No 17, 1958, 59760

Author

Tomaszewski Jerzy Chrzczonowicz Stanislaw

Inst

Title

: Copolymerization of E-Caprolactam with 2-Vinylpuridine

or 2-methyl-, 6-vinylpyridine in the Mass and in Solution

Orig Pub

: Zesz. nauk. Politechn. lodzkiej, 1957, No 18, 57-60.

Abstract

: The conditions are described of the copolymerization of E-caprolactam with 2-vinyipyridine or with 2-methyl-6-vinylpyridine in the mass and in boiling xylene. The softening temperature of the copolymers obtained and their solubility in H₂SO₄ solutions of various con-

centration is determined.

Card 1/1

Chemical treatment of polyamide ubers by pyridine desiratives. I. Use of pyridine desiratives in the dyeins process. Stanislaw Chrzezonowicz and Bogdan Osfaszew, ski (Politten. 2013. Fushid). Zessyly Naus. Politech. 2014. Politten. 2015. Fushid). Zessyly Naus. Politech. 2014. No. 22, Clem. No. 7, 47-50(1988) (Buglish summary)—Nylon, filbers (I) were dyed with acid and chromo-dyer after a freatment with 2-pyridinethanol (II) or poly(2-vinylpyridine) sulfate (III). I were (a) treatec, 10-20 min at 60 or 82° with 1 or 5% aq. II and dyed in a soln. of NasSo., 10Hr.O. 10, 4% aq. AcOH 40, and Acid Violet 6B, Amine Red G., or Fast Yellow G., 2%; or (b) treated 10 min. at 20° with 5 ml./1 g. I in an aq. soln. contg. HsSo. 23 and III 5%, immersed in 4% NasCo. 3 min., rinsed 10 min. with water, and dyed as in (a) or in a soln. contg. 85% aq. HCOOH, 4%, instead of AcOH; or (c) dyed with addns. of a quaternary deriv. (IV) of III, prepd. (U.S. 2,487,829, C.A. 44, 1732b) by 38-hr. refluxing of 10 g. III in 100 g. abs. BtOH with 11.9 g. PrBr. The solns. contained dye 1, NasSo. 15, IV 2 or 0, 85% aq. HCOOH 3, and Neolansaltz P (Ciba) (V) 0 or 2%, resp. After 20 min. of dyeing 1% of aq. 85% HCOOH was added and the dyeing was prolonged by 30 min. (4) I were dyed, as in (c), but with dye content 2%, with Chromechtorange 2G, Chromechtgelb 5G, Chrome Acid Yellow FR, and Blue BRN. After chromaing at 65-70° for 0.5 hr., I were treated with I g./l. Neovadine AN for 0.5 hr., with 1 g./l. Invadine A.R, and rinsed.

(c) I pretreated as in (c) were dyed as in (d). In all cases I were immersed at 30-5° into a dye soln. (50 g./1 g.) which was then slowly heated to boiling and held for 1 hr. II deepened the color but spoiled the yellow, and traces of alc. produced a ppt. in the dyeing bath. III intensified the color more on I than on wood, improved color uniformity and washing-resistance. IV was not inferior to V as a sureface active agent and did not reduce the washing resistance.

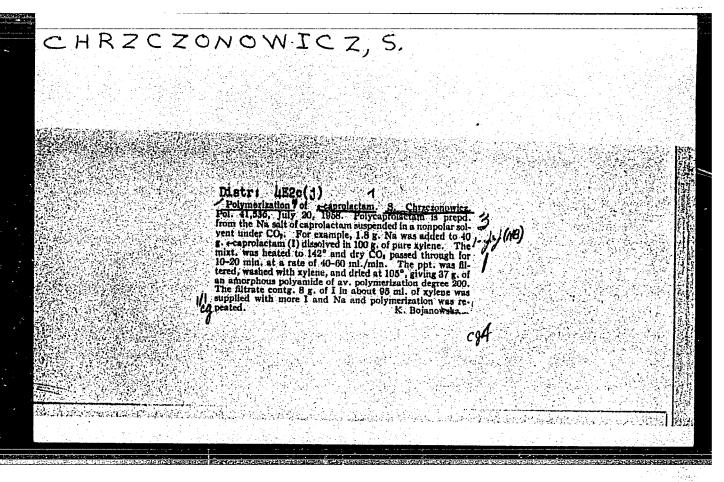
Mech. resistance was but slightly reduced in (a) and (c). II. Use of quaternary derivatives of poly(2-vinylpyridine) for static prevention on polyamide fibers. Ibid. 67-68.— 21000 derivs. of poly(2-vinylpyridine) (IVA) are investigated as static-preventing agents for I. The following were prepd. from IVA after French 819.126 (C.A. 35, 6368); a static-preventing agents for I. The following were prepd. from IVA after French 819.126 (C.A. 35, 6368); a PrBr deriv. (VI), an ElBr deriv. (VII) by a 24-hr. refluxing of 10 g. IVA with 100 g. MeOH and 16 g. EtBr (U.S. 2,487. 829, C.A. 44, 1732b); a Me deriv. (VIII) by 14-fr. refluxing of 10 g. IVA with 100 g. anhyd. C.H. and 14-fg. MesSo., and a Me deriv. (IX) by dissolving 5.25 g. IV in 30 g. PhNO, adding 5.6 g. MesSo., boiling 30 min., distg. PhNO, and H₂O (U.S. 2,484,430, C.A. 44, 9729i). The solns. contg. VI, VII, VIII, or IX 1-5, CnCl. 0-0.1, NaCl 0-0.3, glycerol (X) 0-0.5, and II 0-0.5%, were used. In some cases 5% aq. VIII or IX was neutralized with 10% NacCO, to give neutral solns. (VIIIs, IXa, resp.). The I (I g.), 40/12 deruier, washed at 60° for 15 min. were immersed in a 20-nil. bath at 40 ± 3° for 3 min. and squeezed until the wt. wns 2 g. Standard samples of 100 parallel I, 30-cm. long, were electrified by rubbing against glass, and the distance between their lower ends was measured. In untreated I, the sepn. was 20 cm. after 5-fold rubbing; no sepn. was detected after more than 20-fold rubbing of I treated in the following baths: VII 2, CaCl, 0.5, and X 0.5%; IX 1%, IXa, 2%; IXa, 2%; IXa, 2%; VIIIa, 2%; VIIIa, 2%; VIII, 2%; VIII, 2%; VIII, 2%; VIII, 2%; VIII, 2%; VIIIa, 2%; VI

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CHAZCZONOWILE, J. COUNTRY Poland H-34 CATEGORY ABS. JOUR. : AZKhim., No. 16 1959, No. 59462 3 372508 b Chroseogowics, S. and Ostaszewski, S. ruor. : Not given : The Chemical Treatment of Polyamide Fibers with TITLE Pyridine Derivatives. Investigation of the Utilization of Pyridine Derivatives as Assistants in ORIG. PUB. : Zesz Nauk Politechn Lodzkiej, No 22, 47-56 (1958) : Experiments with the utilization of 2-(\$\beta\$-hydroxy-ABSTRACT ethyl)-pyridine (I), poly-2-vinylpyridinesulfate (II), and of quaternary derivatives of II (III) in the dyeing of nylon with acid and with mordantto-wool dyes are described. The authors have shown that in the presence of I the intensity of the color is increased but the hue deteriorates; II leads to the production of a uniform intense color and improves fastness to wear; III has an effect analogous to that of Neolan salt (Ciba). CARD: 1/2 the Dyeing of Polyamide Fibers

COUNTRY Poland GATLEGORY: ABS. JOUR.: RZKhim., No. 16 1959, No. 59462 AUTHOR INST.: TITLE: ORIG. PUB.: ABSTRACT: Preliminary trestment with II followed by dyeing in a bath containing III improves faatness to wear. Treatment with the compounds studied does not affect the mechanical strength of the fibers. Processes for the production of I, II, and III are indicated. I. Fodiman CARD: 2/2			
AUTHOR IMST. TITLE ORIG. PUB.: ABSTRACT: Preliminary trestment with II followed by dyeing in a bath containing III improves fastness to wear. Treatment with the compounds studied does not affect the mechanical strength of the fibers. Processes for the production of I, II, and III are indicated. I. Fodiman CARD: 2/2		1 // 1 // 2 // 2 // 2 // 2 // 2 // 2 //	- (44.)
AUTHOR IMST. TITLE ORIG. PUB.: ABSTRACT: Preliminary trestment with II followed by dyeing in a bath containing III improves fastness to wear. Treatment with the compounds studied does not affect the mechanical strength of the fibers. Processes for the production of I, II, and III are indicated. I. Fodiman CARD: 2/2		ABS. JOUR. : RZKhim., No. 16 1959, No.	
ABSTRACT: Preliminary treatment with II followed by dyeing in a bath containing III improves fastness to wear. Treatment with the compounds studied does not affect the mechanical strength of the fibers. Processes for the production of I, II, and III are indicated. I. Fodiman CARD: 2/2		SOLTUA : SOLTUA : TEMI	
in a bath containing III improves fastness to wear. Treatment with the compounds studied does not affect the mechanical strength of the fibers. Processes for the production of I, II, and III are indicated. I. Fodiman CARD: 2/2		ORIG. PUB. :	
CARD: 2/2		in a bath containing III improves fastness to wear. Treatment with the compounds studied does not affect the mechanical strength of the fibers.	
CARD: 2/2		I. Fodiman	
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		CARD: 2/2	
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	Instr: 4E20(1) / Polymerization of ecsprolacism and remantholacism in mospolar solvents. Stanislaw Christonowicz, Miroslaw Wiodarczyk, and Bogusin Oslaszewiki Tinst. Technol. E. M. Polymerization of the polymerization progress of ecaprolacism (1) and remantholacism (II) on the temposite of ecaprolacism (1) and remantholacism (II) on the temposite of ecaprolacism (1) and remantholacism (II) on the temposite of the polymerization degree of I on the sinit of catalyst and polymerization temp, were detd. I was printed from the calme by vacuum distriction with 1% NaOH and dried over P.O., II was prepd. from subcrone and purified by fractionation. Hexane, heptane, benieue, naphtha, and their mixts, were used as solvents. Polymerization of I dress not take place below 110°, the products being sol. in H.O. Polymerization of I in a solvent and in the presence of
	the Na sait of I and CO _I occurs above 110°. The mean degree of polymerization of the produced polymer rises rapidly to a value of 400 at 160° as the process temp. is increased. Arthur Lyem

CHRZCZONOWICZ, S.; WLODARCZYK, M.

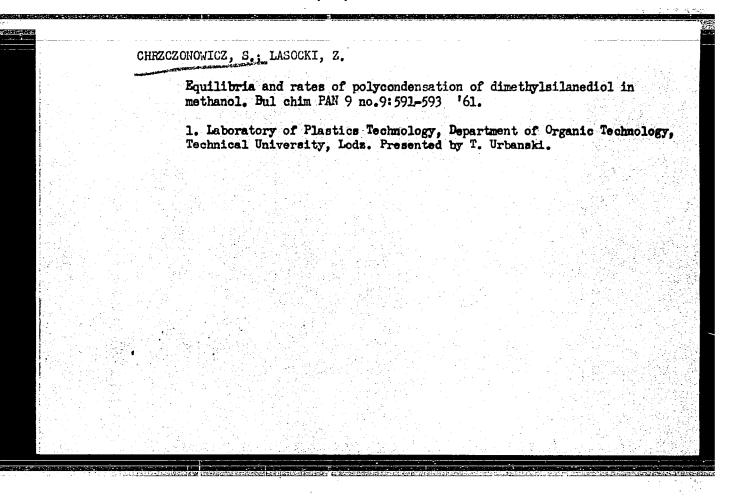
The structure of end-groups of polycarprolactam. Chain transfer in solvent polymerisation of &-caprolactam. Bul chim PAN 9 no.9: 585-587 61.

1. Laboratory of Plastics Technology, Department of Organic Technology, Technical University, Lods. Presented by T. Urbanski.

CHRZCZONOWICZ, S.; LASOCKI, Z.

The rates of polycondensation of dimethylsilanediol. Bul chim PAN 9 no.9:589-590 '61.

1. Laboratory of Plastics Technology, Department of Organic Technology, Technical University, Lodz. Presented by T. Urbanski.



\$/081/62/000/004/087/087 B102/B101 Chrzczonowicz, Stanisław, Lasocki, Zygmunt AUTHORS: Bifunctional silicone monomers; hydrolysis and condensation. TITLE: IV. Hydrolysis of w,w'-dimethoxy-(dialkylpolysiloxanes) Referativnyy zhurnal. Khimiya, no. 4, 1962, 673, abstract 4R146 (Roczn. chem., v. 35, no. 1, 1961, 127 - 133) PERIODICAL: TEXT: A study has been made of the kinetics of hydrolysis of the first six members of the homologous series of ω, ω'-dimethoxy(dimetylpolysiloxane) and of the first five members of the series of ω,ω'-dimethoxy (methylethylpolysiloxanes) in methanol when the neutrality of the reaction medium has been accurately maintained. The rate of hydrolysis has been determined by the method of taking samples with a certain degree of conversion. The most considerable difference in the kinetics of hydrolysis has been observed with the monomers of both series (n=1). For n < 4 the kinetic curves coincide. It is shown that the resistance to hydrolysis of the methoxyl end groups is much higher in polysiloxanes than in monomers. For communication III cf. RZhKhim, 1961, 20Zh19. [Abstracter's note: plete translation. Card 1/1

S/081/62/000/015/037/038 B171/B101

AUTHORS:

Chrzczonowicz, S., Lasocki, Z.

TITLE:

The rates of polycondensation of dimethylsilanediol

.PERIODICAL:

Referativnyy shurnal. Khimiya, no. 15, 1962, 634, abstract 15R48 (Bull. Acad. polon. sci. Ser. sci. chim., v. 9, no. 9,

1961, 589-590)

TEXT: The polycondensation (PC) of dimethylsilanedical (I) in dioxane at 25°C ± 0.05, in the presence of HCl as catalyst, is a second order reaction in relation to the SiOH groups and a first order reaction in relation to HCl. The slowing down of the rate of PC when 25-40% of silanol groups have reacted is assumed to be due to the lower reactivity of OH groups in the polysiloxane already generated as compared with the reactivity of the monomer silanedical This hypothesis is confirmed by the fact that the rate of PC of dimer tetramethyldisiloxanedical is 35 times lower than that of I. The subsequent increase in the rate of PC, in comparison with that calculated, can apparently be explained by the effect of water, produced during the reaction on the catalytic action of HCl. [Abstracter's note: Complete translation.]

8/081/62/000/015/038/038 B171/B101 影响使用的中心

AUTHORS:

TITLE:

Chrzesonowies, S., Lasecki, Z. Equilibria and rates of polycondensation of dimethylsilanediol in methanol

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 15, 1962, 636, abstract 15R63 (Bull: Acad. polon. sci. Sér. sci. chim., v. 9, no. 19,

1961, 591-593)

TEXT: The equilibrium constant of the polycondensation of dimethylsilanediol in CH₂OH, $K=K_2/K_1=[=Si-OSi=]/[=SiOCH_3]^2$ [HOH] amounting to 17.5 at 25°C + 0.05, is independent of the initial proportion of reactants and of the catalyst used (HCl, NaOH, KOH). The initial rate of a reaction catalyzed by the acid is proportional to the product [= SiOCH] [HC1] and the subsequent fall in the rate of reaction to about 10) is caused mainly by the reduced reactivity of OH groups in the growing polysiloxane chains. In the presence of alkalis, the reaction of polycondensation at its inital stage can be represented by a linear equa-Card 1/2

CHRZCZONOWICZ,S.; MICHALSKA,Z. Application of polymers and copolymers of vinyl pyridines. Polimery tworz wielk 7 no.5:162-165 My 162

1. Zaklad Technologii Tworzyw Sztucznych, Politechnika, Lodz.

CHRZCZONOWICZ, Stanislaw; LASOCKI, Zygmunt

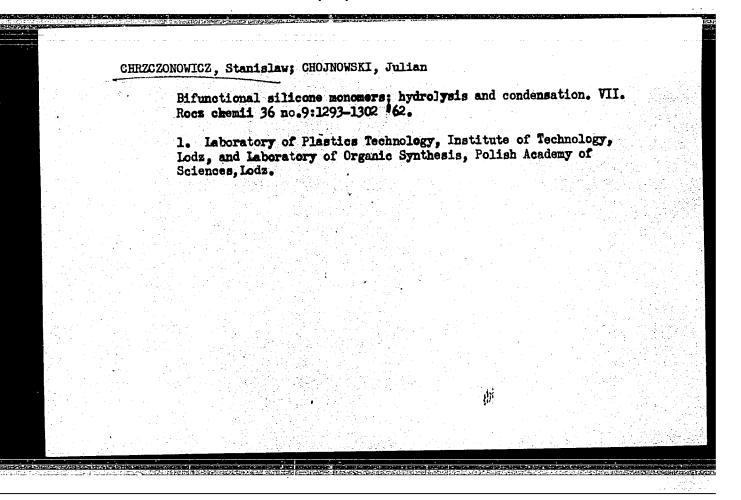
Bifunctional silicone monomers; hydrolysis and condensation. VI. The rates of polycondensation of dimethylsilanedicl in methanol. Rocz chemii 36 no.3:433-444 '62.

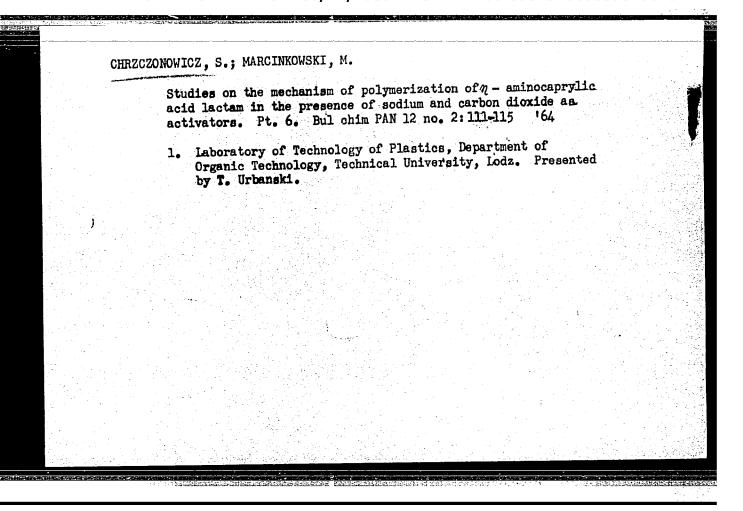
1. Department of Organic Technology, Laboratory of Technology of Plastics, Institute of Technology, Lodz, and Department of Organic Synthesis, Pelish Academy of Sciences, Lodz.

CHRZCZONOWICZ, Stanislaw; LASOCKI, Zygmunt

Bifunctional silicone monomers: hydrolysis and condensation. V. Rate of polycondensation of dimethylsilanediol. Rocz chemii 36 no.2:275-284 '62.

1. Department of Organic Technology, Laboratory of Technology of Plastics, Institute of Technology, Lodz, and Department of Organic Synthesis, Polish Academy of Sciences, Lodz.





CHRZCZONOWICZ, Stanislaw; CHOJNOWSKI, Julian

Bifunctional silicon monomers; hydrolysis and condensation. Pt.8. Rocz chemii 36 no.10:1459-1463 *62.

1. Laboratory of Plastics Technology, Institute of Technology, Lodz and Laboratory of Organic Synthesis, Polish Academy of Sciences, Lodz.

CHRZCZONOWICZ, S.; MARCINKOWSKI, M.

Studies on the mechanism of polymerization of — aminocaprylic acid-lactam in the presence of sodium and carbon dioxide as activators. Pts. 4-5. Bul chim PAN 12 no. 1:31-39 164.

1. Institute of Technology of Plastics, Department of Organic Technology, Technical University, Lodz. Presented by T. Urbanaki.

CHRZCZONOWICZ, S.; OSTASZEWSKI, B.

Polymerization of 5-e-mi-holactam in nonpolar solvents.
Pts.3-4. Bul chim PAN Q[i.e. 12] no.9:593-601 '64.

1. Technological Laboratory of Plastics of the Department of Organic Technology of Lodz Technical University. Submitted June 6, 1964.

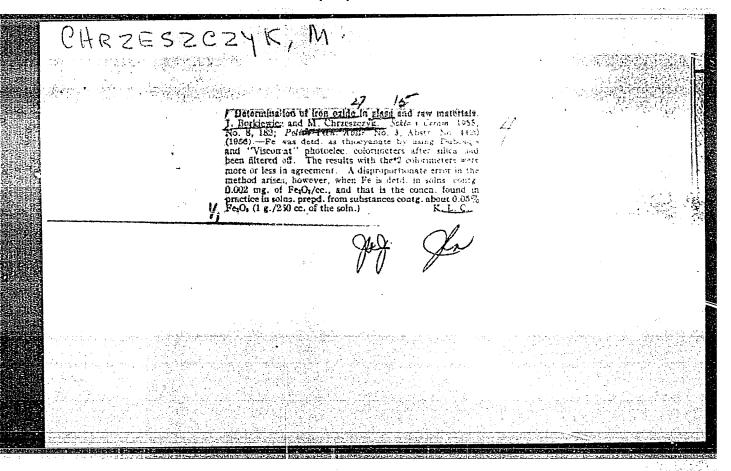
CHRZCZONOWICZ, S.; OSTASZEWSKI, B.; REIMSCHUSSEL, W.

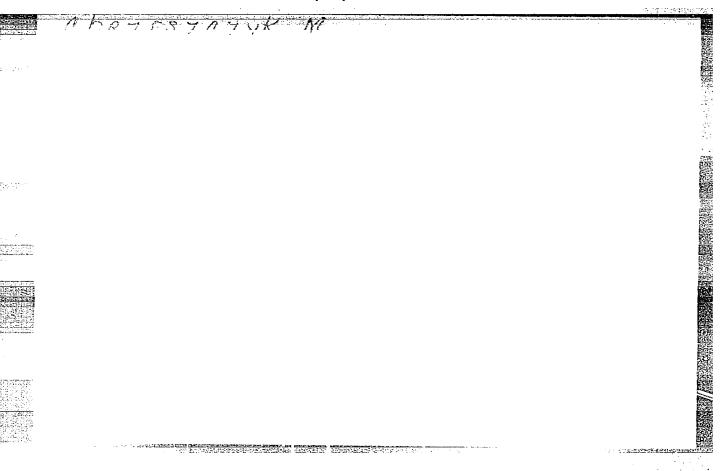
Polymerization of J-enatholactam in nonpolar solvents. Pt.5.
Bul chim PAN 12 no.10:691-693 '64.

1. Technological Laboratory of Plastics of the Department of Organic Technology of Lodz Technical University. Submitted June 29, 1964.

Taternational symposis on marronal-cuber chemistry. Moncow, 1960.	us po makrunolabilyarnoy khizi; isty Sald is Moncor, June 1k- s, Isd-we Ad Solk Moncor, June 1k- s, Isd-we Ad Solk Moncor, June 1k- s, Isd-we Ad Solk Moncor, June 1k- selar Charletty relar Charletty relar Charletty in the papers is this value two the papers is this papers the papers is the papers the papers is this papers the papers is the p	Margin Tak, and Edition (NEW). Processes of Palmeriastics 460 [GRIN]. The folymidation Fronces in the Solid Prace [GRIN]. The folymidation of C. (Solid Fronces of Fronce of Fronces in the Fronce of Fronce of Fronces in the Fronces in the Fronces in the Fronces of Fronces in the Fronces of Fronces in the Fronces of Fronces in the Fronces in Fritzes in Fritzes in the Fronces in Fritzes	State, M.I. Moseritally, I. Ta. Podibinty, and Buth Langel. Study of Some Details of the Mechanian of Polymerisation Under Study of Some Details of the Mechanian of Polymerisation Under Note: 6.75 Meanity, M.I. Boritors, and M.O. Charre (1853). T. S. S. Maratty, M.I. Boritors, and M.O. Charre (1853). I. A.P. Engine and Methods of Study D. A.P. Engine M.I. Methods of Study Maiston Maist
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CHRZESZCZYŁ			
	Chrzeszczyk M. Basatt Weol, — a New Insulating Material, "Welna buzaltowa — nowy materiał izolacyjny". Szkło i Ceramika. No. 3, 1955, pp. 47—52, 12 figs., 3 tabs.	W /	
	A discussion of the process of production of basalt wool developed in Poland. This consists in blowing the melted raw material by compressed steam or air, and can be divided lab.	My 1	
	the raw material and transporting it to the furnace; 1) proparation of material in the furnace; 3) blowing the molten raw material; and 4) receiving the ready product. The fibres of the basalt wool now produced in Poland are thinner than those of slag wool and, consequently, also possess better heat-absorbing properties. The most noteworthy industrial uses of basalt wool are listed.		





CHRZSNOWSKI, M.

CHRZSNOWSKI, M. The application of radiosisotopes in industry. p. 65.

Vol. 29, no. 2, 1956 MECHANIK TECHOLOGY Warszawa, Poland

So: East European Accession, Vol. 6, no. 2, 1957

CHRZESZCZYK, M.; KARCH, Z.

Tasks and work of a factory laboratory in the glass industry. Pt. 2. Chemical laboratory, p. 127. (Szklo I Ceramika, Vol. 8, No. 5, May 1957, Krakow, Poland)

SO: Monthly List of East European Accessions (EEAL) Lc. Vol. 6, No. 8, Aug 1957. Uncl.

POLATO / Chemical Technology, Chemical Products and Their

H-13

Application. Ceramics. Glass. Binding Materials. Concrete.

Abs Jour : Ref Zhur - Khimiya, No 5, 1959, No. 16245

Author : Chrzeszczyk, M.
Inst : Not given

Title : Glass Fiber - Production, Properties and Application

Orig Pub : Szklo i coram., 1958, 9, No 6, 159-164, No 7, 190-194

Abstract: Because of its high mechanical strength, fire-proof properties, low heat and sound conductivities, low electrical conductivity, chemical stability, etc., glass fiber has found a wide range of applications in various sectors of industry. The world production of fiber glass in 1957 comprised approx. 300,000 tons. The article describes various manufacturing methods of glass fiber, including drawing from dies and glass rods, blowing and

Card 1/2

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APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000509010020-4"

POLAND / Chemical Technology, Chemical Products and Their H-L Application. Ceramics. Glass. Binding Materials. Concrete.

Abs Jour : Ref Zhur - Khimiya, No 5, 1959, No. 16245

manufacturing in accordance with the Hager's method. The data pertaining to physical and mechanical properties of fiber glass are also presented. They include: bulk and true densities, mechanical strength, its dependency on the fiber diameter, absorption of water, heat resistance, electro-, thermo-, and sound-insulating properties, friction coefficients, resistance to atmospheric corrosion, and aging. In the conclusion, the present status of the fiber glass manufacture in Poland is reviewed. The prospective development of this industry is discussed. The bibliography includes 4 titles. -- L. Sedov

KRAIOVA, L.; CHRZOVA, V.

Chronic cardiac aneurysm; a review of the occurrence in pathological material over the past eleven years. Rev. Czech. N. 4 no.3:225-232 1958.

1. Second Clinic of Internal Diseases, Charles University, Prague. Director: Prof. F. Herles.

(HEART, ansurysm incidence & postmortem pathol.)

CHRZOVA, V.

SURNAME, Given Names

Country: Czechoslovakia

Academic Degrees: [not given]

Affiliation:

Source: Prague, Rozhledy v Tuberkulose a v Nemocech Plicnich, Vol XXI, No 6, July 61, pp 156-160.

Data: "Bilateral Extensive Pneumocytic Pneumonia in a "ale Aged 30 Years Suffering From Malignant Lymphogranuloma."

Authors:

BRAUN, A., [presumably] First Institute of Pathological Anatomy, KU [Karlova universita; Charles University] (1. patologickoanatomicky ustav

DRAB, K., presumably First Institute of Pathological Anatomy, KU, Prague.

CHRZOVA, V. [presumably] Second Internal Clinic, KU (II. interni klinika KU), Prague; Director: Prof Dr F. HERLES.

KRALOVA, L., [presumably] Second Internal Clinic, KU, Prague.

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219

CHTCHYAN, G. O., Candidate Tech Sci (diss) -- "Investigation of the economy of a Diesel tractor as a function of its load (The example of the KDP-35 tractor)". Yerevan, 1959. 22 pp (Min Agric USSR, Leningrad Agric Inst), 175 copies (KL, No 24, 1959, 143)

S/145/62/000/005/002/008 D262/D308

AUTHOR:

Chtchyan, G. O., Candidate of Technical

Sciences

TITLE:

Investigation of the stable operating condition

ranges for free piston engines

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Mashinostroyeniye, no. 5, 1962, 21-25

TEXT: The author describes a series of experiments conducted to investigate working possibilities of free piston dieselcompressors operating under small loads, or running idle. A standard diesel compressor ΔΚ-λ (DK-2) and a low pressure experimental engine ΔΚΗΔ (DKND) were employed, and loading characteristics were obtained using three different methods of fuel consumption control: (a) standard rack gear of the fuel pump, (b) special screw device to obtain smooth movement of the pump gear, and (c) specially designed device including a spring operated

Card 1/2

Investigation of the...

S/145/62/000/005/002/008 D262/D308

"maximeter" placed between the fuel pump and the injector to regulate the amount of fuel. The results of the experiments are presented graphically and the following conclusions are reached: The existing opinion that free-piston engines can work under small loads and running idle is incorrect. That they cannot is due to the defects of the fuel pump only, and not because of any organic fault in the free piston engine. With a suitably designed fuel system, fuel consumption can be lowered, output reduced to 11%, and idle running secured at 0.062 g of fuel per cycle (from experimental data for DK-2 and DKND). There are 7 figures.

ASSOCIATION:

Armyanskiy filial VNII EM (Armenian Branch of the VNII EM)

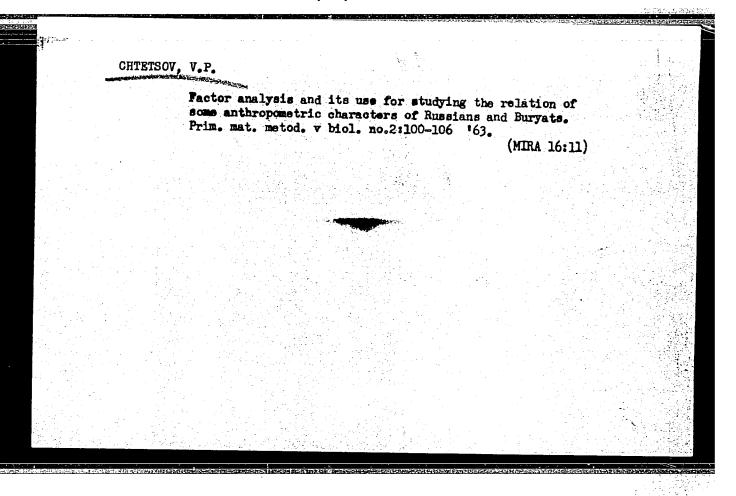
Card 2/2

CHTCHYAN, G.O., knad.tekhn.nauk

Investigating the ranges of steady conditions of a free-piston engine. Izv.vys.ucheb.zav.; mashinostr. no.5:21-25 '62. (MIRA 15:10)

1. Armyanskiy filial. Vsesoyusnojo nauchno-issledovatel'skogo instituta elektromekhaniki.

(Diesel engines)



CHTETSOV, V.P. (Moscow)

"Factorial Analysis and Its Use in the Study of Correlation of Some Anthropometric Indexes of Russians and Buryats"

Report presented at the 3rd Conference on the use of Mathemetics in Biology, Leningrad University, 23-28 Jan. 1961. (Primeneniye matematicheskikh Metodov v Biologii. II, Leningrad, 1963 pp 5-11)

"Morfologicheskaya kharakhteristika pekotorykh grupp sportsmenov."
report submitted for 7th Intl Cong, Anthropological & Ethnological Sciences, Moscow, 3-10 Aug 64.

CHTETSOVA, V.H., kand.med.nauk

Phagocytic activity of the leukocytes. Pediatriia 38 no.12: 52-54 60. (MIRA 14:2)

1. Iz Sverdlovskogo nauchno-issledovatel skogo institut okhrany materinstva i mladenchestva (dir. R.A. Malisheva).

(PHAGOCYTOSIS)